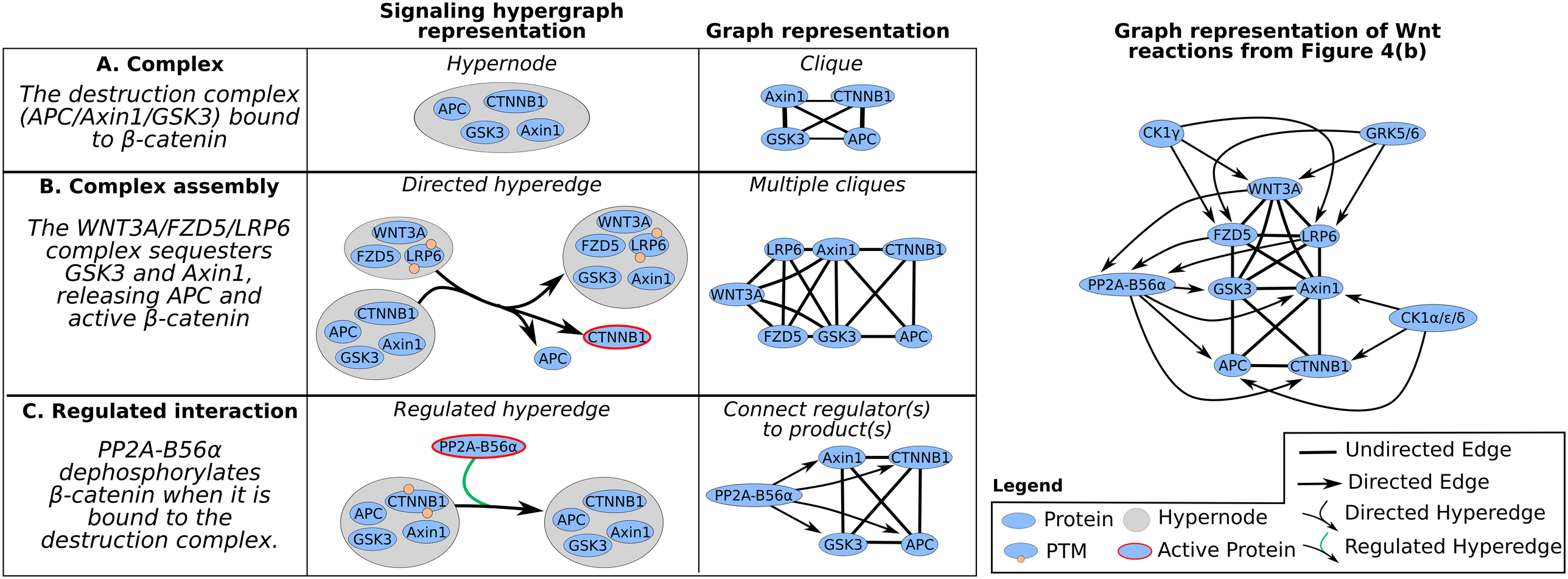
Signaling hypergraph representation
Graph representation
A. Complex
The destruction complex (APC/Axin1/GSK3) bound to β-catenin
Hypernode
APC
CTNNB1
GSK3
Axin1
Clique
Axin1
CTNNB1
GSK3
APC
B. Complex assembly
The WNT3A/FZD5/LRP6 complex sequesters GSK3 and Axin1, releasing APC and active β-catenin
Directed hyperedge
WNT3A
FZD5
LRP6
CTNNB1
APC
Axin1
GSK3
Multiple cliques
LRP6
Axin1
CTNNB1
WNT3A
FZD5
GSK3
APC
C. Regulated interaction
PP2A-B56α dephosphorylates β-catenin when it is bound to the destruction complex.
Regulated hyperedge
PP2A-B56α
Connect regulator(s) to product(s)
Graph representation of Wnt reactions from Figure 4(b)
CK1γ
GRK5/6
WNT3A
FZD5
LRP6
PP2A-B56α
GSK3
Axin1
CK1α/ε/δ
APC
CTNNB1
Legend
Protein
PTM
Hypernode
Active Protein
Undirected Edge
Directed Edge
Directed Hyperedge
Regulated Hyperedge